



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

SHIMIZU et al.

Serial No. 09/722,664

Filed: November 28, 2000

For: CONTROLLER INTERFACE FOR A GRAPHICS
SYSTEM

Atty. Ref.: 723-969

Group: 3713

Examiner: S. Jones

* * * * *

May 22, 2003

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Under 37 C.F.R. §§ 1.56 and 1.97, the applicant directs the attention of the Patent and Trademark Office to the items listed on the attached forms PTO-1449. These items were cited in copending commonly-assigned patent applications as indicated in the appendix and not yet of record in this case.¹ The Examiner is requested to cite and consider these items in this case.

Applicant is attaching copies of all items other than U.S. patents. The U.S. patents are readily available to the Examiner; applicant will submit a copy upon request.

Should the examiner need anything further to consider these items, please contact the undersigned at the telephone number listed below.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

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not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

In the event a first Office Action has already been mailed, please treat this paper as a submission under 37 C.F.R. § 1.97(c) and charge Deposit Account No. 14-1140 for the fee required by 37 C.F.R. § 1.17(p). The U.S. Patent and Trademark Office is authorized to charge any fee which was asserted to have been filed or which should have been filed and to credit any overpayment, to that same Deposit Account No. 14-1140.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: 

Michael J. Shea
Reg. No. 34,725

MJS:bld
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

¹ The identification of the co-pending U.S. Patent Applications in the appendix is not to be construed as a waiver of secrecy as to those applications now or upon issuance of this application as a patent.

APPENDIX

The items cited on the attached form PTO-1449 are of record in the co-pending commonly-assigned patent applications as indicated below:

I. Application No. 09/465,754 filed December 17, 1999 (att. dkt. no. 723-799)
entitled "Vertex Cache For 3D Computer Graphics":

WO/93/04429	PCT
4,491,836	Collmeyer et al.
4,653,012	Duffy et al.
4,695,943	Keeley et al.
4,710,876	Cline et al.
4,768,148	Keeley et al.
4,785,395	Keeley
4,790,025	Inoue et al.
4,812,988	Duthuit et al.
4,829,452	Kang et al.
4,833,601	Barlow et al.
4,965,751	Thayer et al.
4,975,977	Kurosu et al.
5,056,044	Frederickson et al.
5,086,495	Gray et al.
5,163,126	Einkauf et al.
5,179,638	Dawson et al.
5,353,424	Partovi et al.
5,448,689	Matsuo et al.
5,657,045	Katsura et al.
5,657,443	Krech, Jr.
5,659,673	Nonoshita
5,726,947	Yamazaki et al.
5,740,406	Rosenthal et al.
5,745,125	Deering et al.
5,748,986	Butterfield et al.
5,751,930	Katsura et al.
5,754,191	Mills et al.
5,801,720	Norrod et al.
5,821,940	Morgan et al.

5,821,940	Morgan et al
5,822,516	Krech, Jr.
5,838,334	Dye
5,886,701	Chauvin et al.
5,887,155	Laidig
5,940,089	Dilliplane
5,949,421	Ogletree et al.
5,995,120	Dye
6,088,701	Whaley et al.
6,226,713 B1	Mehrotra
6,292,194 B1	Powll, III
6,408,362 B1	Arimilli et al.
6,426,747	Hoppe et al.
6,459,429	Deering

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White paper, Rogers, Douglas H., "Optimizing Direct3D for the GeForce 256" (1/3/2000)

Hook, Brian, "An Incomplete Guide to Programming DirectDraw and Direct3D Immediate Mode (Release 0.46)," printed from web site: www.wksoftware.com, 42 pages

Thompson, Tom, "Must-See 3-D Engines," BYTE MAGAZINE, printed from web site www.byte.com, 10 pages (June 1996)

Thompson, Nigel, "Rendering with Immediate Mode," Microsoft Interactive Developer Column: Fun and Games, printed from web site msdn.microsoft.com, 8 pages (March 97)

"HOWTO: Animate Textures in Direct3D Immediate Mode," printed from web site support.microsoft.com, 3 pages (last reviewed 12/15/2000)

INFO: Rendering a Triangle Using an Execute Buffer," printed from web site support.microsoft.com, 6 pages (last reviewed 10/20/2000)

U.S. application Serial No. 09/337,293, filed 6/21/1999, "Multi-Format Vertex Data Processing Apparatus and Method

Datasheet, SGS-Thomson Microelectronics, nVIDIA™, RIVA 128™ 128-Bit 3D Multimedia Accelerator (10/1997)

Product Presentation, "RIVA128™ Leadership 3D Acceleration," 2 pages

Hoppe, Hugues, "Optimization of Mesh Locality for Transparent Vertex Caching," PROCEEDINGS OF SIGGRAPH, pages 269-276 (August 8-13, 1999)

II. Application No. 09/726,223 filed November 28, 2000 (atty. dkt. no. 723-751)
entitled "Z Value Clamping In Near-Z Range To Maximize Precision Of Visually
Important Z Components And To Avoid Near-Z Clipping In A Graphics
Rendering System":

4,888,712 BARKANS et al.
4,907,174 PRIEM
5,819,017 Akeley et al.
5,856,829 GRAY, III et al.
5,923,332 IZAWA
5,926,182 MENON et al.
5,982,376 ABE et al.
5,986,659 GALLERY et al.
6,046,746 DEERING
6,052,129 FOWLER et al.
6,144,387 LIU et al.
6,157,387 KOTANI
6,285,779 Lapidous et al.

III. Application No. 09/722,419 filed November 28, 2000 (atty. dkt. no. 723-958)
entitled "Graphics Pipeline Token Synchronization":

4,989,138 Radochonski
5,345,541 Kelley et al
5,467,459 Alexander et al.
5,487,146 Gutttag et al.
5,768,629 Wise et al.
5,828,907 Wise et al.
5,835,792 Wise et al.
5,872,902 Kuchkuda et al.
5,982,390 Stoneking et al.
6,046,752 Kirkland et al.
6,252,610 Hussain
6,476,808 Kuo et al.

IV. Application No. 09/722,382 filed November 28, 2000 (atty. dkt. no. 723-961)
entitled "Method And Apparatus For Direct and Indirect Texture Processing In A
Graphics System":

4,692,880 MERZ et al.

4,935,879 UEDA
5,003,496 HUNT, Jr. et al.
5,422,997 NAGASHIMA
5,469,535 JARVIS et al.
5,495,563 WINSER
5,548,709 HANNAH et al.
5,582,451 COX et al.
5,586,234 SAKURABA et al.
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5,745,118 ALCORN et al.
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5,764,237 KANEKO
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5,831,625 RICH et al.
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5,861,888 DEMPSEY
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5,926,647 ADAMS et al.
5,945,997 ZHAO et al.
5,963,220 LEE et al.
5,987,567 RIVARD et al.
5,999,198 HORAN et al.
6,002,407 FADDEN
6,011,565 KUO et al.
6,040,844 YAMAGUCHI et al.
6,046,747 SAUNDERS et al.
6,052,126 SAKURABA et al.
6,057,849 HAUBNER et al.
6,057,851 LUKEN et al.
6,057,861 LEE et al.
6,353,438 VAN HOOK

Whitepapers: "Texture Addressing," Sim Dietrich, January 6, 2000, www.nvidia.com

V. Application No. 09/722,367 filed November 28, 2000 (atty. dkt. no. 723-968)
entitled "Recirculating Shade Tree Blender For A Graphics System":

4,586,038	Sims et al.
5,278,948	Luken, Jr.
5,561,752	Jevans
5,678,037	Osugi et al.
5,867,166	Myhrvold et al.
5,949,428	Toelle et al.
5,999,189	Kajiya et al.
6,016,151	Lin
6,043,821	Sprague et al.
6,236,413	Gossett et al.

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User's Manual," Pixar,

NVIDIA.com, technical presentation, "AGDC Per-Pixel Shading" (11/15/2000)

NVIDIA.com, technical presentation, "Introduction to DX8 Pixel Shaders
(11/10/2000)

NVIDIA.com, technical presentation, "Advanced Pixel Shader Details"
(11/10/2000)

"Developer's Lair, Multitexturing with the ATI Rage Pro," (7 pages) from ati.com
web site (2000)

VI. Application No. 09/726,218 filed November 28, 2000 (atty. dkt. no. 723-960)
entitled "Method And Apparatus For Efficient Generation Of Texture Coordinate
Displacements For Implementing Emboss-Style Bump Mapping In A Graphics
Rendering System":

5,900,881	IKEDO
5,880,736	PEERCY et al.
5,808,619	CHOI et al.
4,808,988	BURKE et al.
6,014,144	NELSON et al.

5,224,208 MILLER, JR. et al.
6,078,334 HANAOKA et al.
5,561,746 MURATA et al.
5,659,671 TANNENBAUM et al.
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6,081,274 SHIRAISHI
6,031,542 WITTIG
5,621,867 MURATA et al.

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Technical Presentations: "Texture Space Bump Mapping," Sim Dietrich, November 10, 2000, www.nvidia.com

VII. Application No. 09/722,381 filed November 28, 2000 (atty. dkt. no. 723-962) entitled "Method And Apparatus For Environment-Mapped Bump-Mapping In A Graphics System":

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4,615,013 YAN et al.
5,544,292 WINSER
5,563,989 BILLYARD
5,809,219 PEARCE et al.
5,870,102 TAROLLI et al.
5,923,334 LUKEN
5,956,043 JENSEN
6,049,337 VAN OVERVELD
6,052,127 VASWANI et al.
6,078,333 WITTIG et al.
6,191,794 PRIEM et al.

VIII. Application No. 09/726,216 filed November 28, 2000 (atty. dkt. no. 723-967) entitled "Achromatic Lighting in a Graphics System and Method":

4,275,413 Sakamoto et al.
5,016,183 Shyong
5,097,427 Lathrop et al.
5,361,386 Watkins et al.

5,467,438 Nishio et al.
5,473,736 Young
5,495,563 Winsor, Paul A.
5,504,499 Horie et al.
5,557,712 Guay
5,566,285 Okada
5,649,082 Burns
5,687,304 Kiss, Kenneth W.
5,740,343 Tarolli et al.
5,943,058 Nagy
5,956,042 Tucker et al.
6,023,261 Ugajin
6,232,981 Gossett, Carroll Philip
6,417,858 Bosch et al.

White paper, Dietrich, Sim, "Cartoon Rendering and Advanced Texture Features of the GeForce 256 Texture Matrix, Projective Textures, Cube Maps, Texture Coordinate Generation and DOTPRODUCT3 Texture Blending" (12/16/1999)

IX. Application No. 09/726,226 filed November 28, 2000 (atty. dkt. no. 723-964) entitled "Method And Apparatus For Anti-Aliasing In A Graphics System":

4,897,806 COOK et al.
5,239,624 COOK et al.
5,394,516 WINSER
5,600,763 GREENE et al.
5,651,104 COSMAN
5,764,228 BALDWIN
5,818,456 COSMAN et al.
5,859,645 LATHAM
5,877,771 DREBIN et al.
5,943,060 COSMAN et al.
5,949,428 TOELLE et al.
6,028,608 JENKINS
6,038,031 MURPHY
6,469,707 B1 Douglas Voorhies
6,496,187 B1 Michael Deering et al.

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Akeley, Kurt, "Reality Engine Graphics", 1993, Silicon Graphics Computer
Systems, pp. 109-116.

X. Application No. 09/722,380 filed November 28, 2000 (atty. dkt. no. 723-957)
entitled "Graphics System With Embedded Frame Buffer Having Re-configurable
Pixel Formats":

5,018,076	JOHARY et al.
5,241,658	MASTERSON et al.
5,307,450	Grosssman
5,543,824	PRIEM et al.
5,559,954	SAKODA et al.
5,650,955	PUAR et al.
5,657,478	RECKER et al.
5,694,143	Fielder et al.
5,703,806	PUAR et al.
5,742,788	PRIEM et al.
5,890,190	Rutman
5,914,729	LIPPINCOTT
5,933,154	HOWARD et al.
6,041,010	PUAR et al.
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6,215,497	Leung
6,356,497	PUAR et al.
6,476,822	Burbank

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XI. Application No. 09/585,329 filed June 2, 2000 entitled "Variable Bit Field Color
Encoding" (atty. dkt. no. 723-749):

4,918,625	Yan
5,416,606	Katayama et al.
5,606,650	Kelley et al.
5,767,858	Kawase et al.

5,805,175	Priem
5,880,737	Griffen et al.
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[wysiwyg://16/http://www4.zdnet.com...ies/reviews/0,4161,2188286,00.html](http://www4.zdnet.com...ies/reviews/0,4161,2188286,00.html)

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<http://www.futuretech.vuurwerk.nl/alpha.html>

Blythe, David, 5.6 Transparency Mapping and Trimming with Alpha,
<http://toolbox.sgi.com/TasteOfDT/d...penGL/advanced98/notes/node41.html>, June
11, 1998

10.2 Alpha Blending,
<http://www.sgi.com/software/opengl/advanced98/notes/node146.html>

10.3 Sorting, <http://www.sgi.com/software/opengl/advanced98/notes/node147.html>

10.4 Using the Alpha Function,
<http://www.sgi.com/software/opengl/advanced98/notes/node148.html>

Winner, Stephanie, et al., "Hardware Accelerated Rendering Of Antialiasing Using
A Modified A-buffer Algorithm," Computer Graphics Proceedings, Annual
Conference Series, 1997, pp 307-316

XII. Application No. 09/726,212 filed November 28, 2000 (atty. dkt. no. 723-956)
entitled "Method And Apparatus For Dynamically Reconfiguring The Order Of
Hidden Surface Processing Based On Rendering Mode":

5,144,291	Nishizawa
5,268,995	Diefendorff et al.
6,052,125	Gardiner et al.
6,111,584	Murphy, Nicholas J.N.
6,144,365	Young et al.

6,172,678 B1 Shiraishi
6,204,851B1 Netschke et al.

XIII. Application No. 09/726,212 filed November 28, 2000 (atty. dkt. no. 723-973)
entitled "Method And Apparatus For Providing Non-Photorealistic Cartoon
Outlining Within A Graphics System":

5,091,967 Ohsawa
5,666,439 Ishida et al
5,684,941 Dye
5,757,382 Lee
5,933,529 Kim
5,940,538 Spiegel et al
6,021,417 Massarksy
6,026,182 Lee et al
6,038,348 Carley
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6,088,487 Kurashige

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Coordinate Generation and DOTPRODUCT3 Texture Blending" (12/16/1999)

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<http://www.pixar.com/products/renderman/toolkit/Toolkit/AppNotes/appnote.24.html>

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Mulligan, Vikram, "Toon," info sheet, 2 pages, <http://digitalcarversguild.com/products/toon/toon.html>

Toony Shaders, "Dang I'm tired of photorealism," 4 pages, <http://www.visi.com/~mcdonald/toony.html>

"Cartoon Shading, Using Shading Mapping," 1 page, <http://www.goat.com/alias/shaders.html#toonshad>

web site information, CartoonReyes, <http://www.zentertainment.com/zentropy/review/cartoonreyes.html>

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XIV. Application No. 09/726,225 filed November 28, 2000 (atty. dkt. no. 723-954)
entitled "Method And Apparatus For Providing Improved Fog Effects In A
Graphics System":

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5,357,579	BUCHNER et al.
5,363,475	BAKER et al.
5,412,796	OLIVE
5,415,549	LOGG
5,432,895	MYERS
5,535,374	OLIVE
5,573,402	GRAY
5,616,031	LOGG
5,724,561	TAROLLI et al.
5,977,984	OMORI
5,990,903	DONOVAN
6,005,582	GABRIEL et al.
6,064,392	ROHNER
6,268,861 B1	Sanz-Pastor et al.
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XV. Application No. 09/726,221 filed November 28, 2000 (atty. dkt. no. 723-955)
entitled "Method And Apparatus For Texture Tiling In A Graphics System":

4,974,176	BUCHNER et al.
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5,760,783	MIGDAL et al.
5,828,382	WILDE
5,831,624	TAROLLI et al.
5,844,576	WILDE et al.
6,002,410	BATTLE
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XVI. Application No. 09/722,378 filed November 28, 2000 (atty. dkt. no. 723-965) entitled "Z-Texturing":

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5,751,291	Olsen et al
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5,949,423	Olsen
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XVII. Application No. 09/723,336 filed November 28, 2000 entitled "Application Program Interface for a Graphics System" (atty. dkt. no. 723-976):

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5,404,445	Matsumoto
5,432,900	Rhodes et al
5,438,663	Matsumoto et al
5,751,295	Becklund et al
5,861,893	Strugess, Jay J.
5,870,587	DANFORTH et al.
5,920,876	UNGAR et al.
5,936,641	Jain et al
5,995,121	Alcokrn et al
6,052,133	Kang
6,057,863	Olarig
6,151,602	HEJLSBERG et al.
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9A, September 1, 1993, pgs. 307-312

XVIII. Application No. 09/722,663 filed November 28, 2000 (atty. dkt. no. 723-963)
entitled "Graphics System With Copy Out Conversions Between Embedded
Frame Buffer And Main Memory":

4,357,624	GREENBERG
4,817,175	TENENBAUM et al.
5,062,057	BLACKEN et al.
5,204,944	WOLBERG et al.
5,315,692	HANSEN et al.
5,461,712	CHELSTOWSKI et al.
5,506,604	NALLY et al.
5,608,864	BINDLISH et al.
5,644,364	KURTZE et al.
5,691,746	SHYU
5,801,711	KOSS et al.
5,808,630	PANNELL
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